

# Washington Dairy Herds Highest Annual Production in U.S. in 2003

**Milk Production:** Despite an increase in annual production per cow to 22,780 pounds from 22,753 pounds in 2002, all the dairy herds in Washington produced slightly less milk than in 2002. However, average production per cow was well above the National average of 18,749 pounds per cow. Herds in Arizona produced an annual average of 22,284 pounds per cow in 2003 and in third place was Colorado with 21,770 pounds per cow. Marketings of whole milk, producer separated cream sold to plants and dealers, as well as milk sold directly to consumers, totaled 5.6 billion pounds, 40 million pounds below 2002. Approximately 29 million pounds was used on farms where produced, of which 93 percent was fed to calves, and 7 percent

was utilized in producer households. The average number of milk cows in Washington was 245,000 head, 2,000 head fewer than in 2002. Cash receipts from marketings of milk during 2003 totaled \$671.8 million, up slightly from 2002. Producer returns were \$12.10 per hundredweight, compared with \$12.00 per hundredweight in 2002. Whereas, the value of the milk produced was slightly above 2002, it was at the lowest level in 10 years.

**Manufactured Dairy:** Manufactured dairy products absorb the majority of milk produced in Washington state, at 72 percent, unchanged from 2002.

## Whole Milk Equivalent Used in Manufacturing Products: Washington, 1999-2003, 1/

Product	1999	2000	2001	2002	2003
	<b>1,000 Pounds</b>				
Butter	2,692,849	2/	2,305,301	2,420,654	7/
Cheese: American	1,201,769	2/	1,432,056	1,531,172	7/
(Other than American)	2/	2/	16,803	2/	7/
Ice Cream & Other Frozen Products 3/	336,055	323,479	289,372	263,951	7/
Other Milk Products 4/	30,356	33,151	31,885	32,180	7/
<b>TOTAL 5/</b>	<b>4,396,097</b>	<b>4,626,128</b>	<b>4,075,417</b>	<b>4,252,725</b>	<b>4,121,477</b>
Duplications	120,710	133,429	124,381	129,031	128,396
<b>NET TOTAL 6/</b>	<b>4,275,387</b>	<b>4,492,699</b>	<b>3,951,036</b>	<b>4,123,686</b>	<b>3,993,081</b>

1/ Products manufactured do not necessarily show utilization of milk produced in the State because of interstate shipments of milk. No adjustment has been made for shipments of milk and cream between States differing in the test of milk produced.

2/ Not published to avoid disclosure of individual operations.

3/ Excludes frozen yogurt.

4/ Includes cottage cheese, anhydrous milkfat, butter oil, and butterine.

5/ Milk equivalent of other dairy products, including items produced by fewer than 3 plants.

6/ Net total accounts for fat recovered from whey cream and used for making butter and the amount of fat from butter and condensed milk used in making ice cream.

7/ Discontinued in 2002.

## Milk Production & Disposition, Washington, 1994-2003

Year	Production 1/			Disposition				
	Fat in All Milk Produced	Total		Milk Used Where Produced			Total Quantity 2/	Fluid Grade 3/
		Milk	Milkfat	Fed to Calves 1/	Used for Milk, Cream, Butter	Total		
	Percent	Million Pounds						
1994	3.63	5,203	188.9	26	5	31	5,172	100
1995	3.63	5,304	192.5	28	1	29	5,273	100
1996	3.64	5,279	192.2	27	1	28	5,251	100
1997	3.64	5,305	193.1	30	1	31	5,274	100
1998	3.66	5,326	194.9	26	1	27	5,299	100
1999	3.65	5,535	202.0	29	1	30	5,505	100
2000	3.65	5,593	204.1	35	2	37	5,556	100
2001	3.66	5,514	201.8	33	1	34	5,480	100
2002	3.67	5,620	206.3	27	1	28	5,592	100
2003	3.66	5,581	204.3	27	2	29	5,552	100

1/ Excludes milk sucked by calves. 2/ Milk sold to plants and dealers as whole milk and equivalent amounts of milk for cream. Includes milk produced by dealers' own herds and milk sold directly to consumers. Also includes milk produced by institutional herds. 3/ Percentage of milk sold that is eligible for fluid use (Grade A in most States). Includes fluid-grade milk used in manufacturing dairy products.

## Marketings, Income, & Value of Milk Production, Washington, 1994-2003

Year	Combined Marketings of Milk and Cream				Used for Milk, Cream & Butter Where Produced		Gross Producer Income 3/	Value of Milk Produced 1/ 4/
	Milk Utilized	Average Returns 1/		Cash Receipts from Marketings				
		Per 100 Lbs. Milk	Per Lb. Milkfat		Milk Utilized	Value 2/		
	Million Pounds	Dollars		1,000 Dollars	Million Lbs.		1,000 Dollars	
1994	5,172	13.09	3.61	677,191	5	655	677,846	681,250
1995	5,273	12.98	3.57	684,172	1	130	684,302	688,194
1996	5,251	15.01	4.12	788,075	1	150	788,225	792,277
1997	5,274	13.81	3.79	728,143	1	138	728,281	732,423
1998	5,299	15.90	4.34	842,541	1	159	842,700	846,834
1999	5,505	14.90	4.08	820,245	1	149	820,394	824,715
2000	5,556	12.80	3.51	711,168	2	256	711,424	715,904
2001	5,480	15.00	4.10	822,000	1	150	822,150	827,100
2002	5,592	12.00	3.27	671,040	1	120	671,160	674,400
2003	5,552	12.10	3.31	671,792	2	242	672,034	675,301

1/ Cash receipts divided by milk or milkfat in combined marketings. 2/ Value at averaged returns per 100 pounds of milk in combined marketings of milk and cream.

3/ Cash receipts from marketings of milk and cream plus value of milk used for home consumption. 4/ Includes value of milk fed to calves.

## Dairy Products Manufactured: Washington, 1999-2003

Product	1999	2000	2001	2002	2003
	<b>1,000 Pounds</b>				
<b>Butter</b>	118,936	122,012	102,110	107,511	10/
<b>Cheese Types:</b>					
Other American Var. 1/	17,356	23,634	28,909	26,914	10/
Cheddar 2/	102,184	118,610	113,867	126,096	10/
Total American Varieties 3/	119,540	142,244	142,776	153,010	10/
<b>Total Cheese 4/</b>	145,510	159,072	146,715	153,901	10/
Nonfat Dry Milk For Human Food	182,064	184,463	187,346	191,958	10/
Dry Skim Milk For Animal Feed	413	547	993	768	10/
Dry Whey for Human Food	78,318	88,297	81,905	93,977	10/
	<b>1,000 Gallons</b>				
<b>Frozen Products:</b>					
Ice Cream, Reg., Hard	19,965	17,764	16,098	14,183	10/
Sherbert, Hard	1,005	794	-	585	10/
Water & Juice Ices 5/	1,385	-	1,595	-	10/
Ice Cream, Regular (Total) 6/	20,378	17,878	16,188	14,918	10/
Ice Cream, Lowfat 7/	5,723	8,863	8,795	6,763	10/
Sherbet (Total)	1,028	821	1,106	685	10/
<b>Mix Produced:</b>					
Ice Cream, Regular	10,358	9,299	8,420	7,740	10/
Ice Cream, Lowfat 9/	3,538	3,340	3,081	2,747	10/
Sherbet	664	599	742	445	10/

1/ Includes Colby, Monterey, and Jack. 2/ Cheddar is an American variety of cheese. 3/ Includes Cheddar, Colby, washed curd, stirred curd, Monterey, and Jack. 4/ Excludes cottage cheese. 5/ Does not include counter-freezer production. 6/ Contains minimum milkfat content of 10 percent and not less than 4.5 pounds per gallon.

7/ Includes hard, soft-serve, and freezer-made milkshakes. Contains less than 10 percent milkfat required for ice cream. 8/ Not published to avoid disclosure of individual operations. 9/ Includes milkshake mix. 10/ Discontinued in 2002.

## Dairy Products: Per Capita Consumption, United States, 1998-2002

Year	Cottage Cheese Total	Total Cheese	American Cheese	Ice Cream	Lowfat Ice Cream	Frozen Yogurt
	<b>Pounds</b>			<b>Gallons</b>		
1998	2.7	27.8	11.9	16.3	8.1	2.1
1999	2.6	29.0	12.6	16.7	7.5	1.9
2000	2.6	29.8	12.7	16.5	7.5	1.8
2001	2.6	30.0	12.8	16.3	7.3	1.5
<b>2002</b>	<b>1/</b>	<b>1/</b>	<b>1/</b>	<b>1/</b>	<b>1/</b>	<b>1/</b>

Source: Economic Research Service (ERS), US Department of Agriculture. 1/ Discontinued in 2002.

# MILK COWS and PRODUCTION

## Dairy: Number of Milk Cows on Farms, By Months, Washington, 1994-2003 1/

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Average 2/
1,000 Head													
1994	258	256	257	260	261	262	262	263	262	264	261	263	261
1995	263	263	264	265	265	266	267	266	264	262	261	260	264
1996	260	259	258	257	257	257	256	256	257	257	256	255	257
1997	255	255	254	254	255	254	253	252	252	251	251	250	253
1998	250	250	249	249	248	247	247	247	247	247	247	248	248
1999	248	248	249	248	247	247	249	247	247	245	245	246	247
2000	246	246	246	247	247	247	247	247	247	248	248	247	247
2001	247	247	246	246	246	247	247	247	247	247	247	247	247
2002	247	247	247	247	247	248	248	248	247	247	247	247	247
<b>2003</b>	<b>248</b>	<b>248</b>	<b>248</b>	<b>248</b>	<b>244</b>	<b>244</b>	<b>244</b>	<b>244</b>	<b>244</b>	<b>244</b>	<b>243</b>	<b>241</b>	<b>245</b>

1/ Includes dry cows, excludes heifers not yet fresh.

2/ Average based on monthly totals.

## Dairy: Milk Production Per Cow, By Months, Washington, 1994-2003 1/

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Total	Milkfat
Pounds													Pounds/Head	
1994	1,635	1,505	1,690	1,665	1,750	1,700	1,725	1,720	1,650	1,665	1,600	1,645	19,935	724
1995	1,675	1,530	1,710	1,685	1,760	1,710	1,735	1,740	1,645	1,675	1,585	1,650	19,932	724
1996	1,670	1,550	1,705	1,700	1,785	1,740	1,785	1,790	1,705	1,740	1,660	1,710	19,996	728
1997	1,720	1,590	1,800	1,780	1,845	1,795	1,850	1,790	1,710	1,730	1,640	1,720	20,968	763
1998	1,745	1,605	1,805	1,790	1,885	1,835	1,845	1,840	1,775	1,815	1,740	1,805	21,476	786
1999	1,845	1,695	1,885	1,870	1,935	1,880	1,940	1,915	1,855	1,885	1,805	1,885	22,409	818
2000	1,900	1,795	1,945	1,935	1,980	1,910	1,965	1,940	1,845	1,860	1,765	1,815	22,644	827
2001	1,845	1,680	1,885	1,860	1,950	1,900	1,960	1,945	1,835	1,860	1,780	1,845	22,324	817
2002	1,880	1,735	1,930	1,910	2,005	1,925	1,965	1,965	1,855	1,870	1,800	1,890	22,753	835
<b>2003</b>	<b>1,910</b>	<b>1,750</b>	<b>1,950</b>	<b>1,895</b>	<b>1,975</b>	<b>1,910</b>	<b>1,965</b>	<b>1,960</b>	<b>1,865</b>	<b>1,890</b>	<b>1,810</b>	<b>1,900</b>	<b>22,780</b>	<b>834</b>

1/ Excludes milk sucked by calves.

## Dairy: Milk Production, By Months, Washington, 1994-2003 1/

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Total 2/
Million Pounds													
1994	422	385	434	433	457	445	452	452	432	440	418	433	5,203
1995	441	402	451	447	466	455	463	463	434	439	414	429	5,304
1996	434	401	440	437	459	447	457	458	438	447	425	436	5,279
1997	439	405	457	452	470	456	468	451	431	434	412	430	5,305
1998	436	401	449	446	467	453	456	454	438	448	430	448	5,326
1999	458	420	469	464	478	464	483	473	458	462	442	464	5,535
2000	467	442	478	478	489	472	485	479	456	461	438	448	5,593
2001	456	415	464	458	480	469	484	480	453	459	440	456	5,514
2002	464	429	477	472	495	477	487	487	458	462	445	467	5,620
<b>2003</b>	<b>474</b>	<b>434</b>	<b>484</b>	<b>470</b>	<b>482</b>	<b>466</b>	<b>479</b>	<b>478</b>	<b>455</b>	<b>461</b>	<b>440</b>	<b>458</b>	<b>5,581</b>

1/ Excludes milk sucked by calves. 2/ Total milk production for year.

## Milk Cows: By Counties, Washington, January 1, 2000-2004

County & District	2000	2001	2002	2003	2004
<b>Head</b>					
<b>COUNTY</b>					
Adams	3,900	5,500	6,100	6,100	6,600
Asotin	1/	1/	1/	1/	1/
Benton	1/	1/	1/	1/	1/
Chelan	1/	1/	1/	1/	1/
Clallam	1/	1/	800	1,000	1/
Clark	4,900	4,100	4,000	3,700	3,800
Columbia	1/	1/	1/	1/	1/
Cowlitz	1/	1/	800	700	1/
Douglas	1/	1/	1/	1/	1/
Ferry	1/	1/	1/	1/	1/
Franklin	4,500	5,800	5,900	6,200	5,900
Garfield	1/	1/	1/	1/	1/
Grant	11,800	11,600	13,400	16,500	16,800
Grays Harbor	3,700	3,500	3,500	3,100	3,000
Island	2,200	1/	1,700	1,300	1,100
Jefferson	1/	800	800	800	600
King	16,300	13,900	13,400	11,600	11,100
Kitsap	1/	1/	1/	1/	1/
Kittitas	1/	1/	1/	1/	1/
Klickitat	1,400	1,300	1/	800	900
Lewis	9,000	9,100	9,100	9,000	9,000
Lincoln	1/	1/	1/	1/	1/
Mason	1/	1/	1/	1/	1/
Okanogan	1/	1/	1/	1/	1/
Pacific	2,000	1,700	1,700	1,900	2,000
Pend Oreille	1/	1/	1/	1/	1/
Pierce	6,800	5,800	5,300	4,600	4,900
San Juan	1/	1/	1/	1/	1/
Skagit	18,900	17,400	17,300	17,000	17,000
Skamania	1/	1/	1/	1/	1/
Snohomish	21,000	18,600	17,100	15,700	16,000
Spokane	2,600	1/	2,100	2,300	2,200
Stevens	1,500	1/	1,600	2,200	2,100
Thurston	11,100	11,100	11,100	10,000	7,800
Wahkiakum	600	400	400	500	500
Walla Walla	1/	1/	1/	200	1/
Whatcom	63,800	62,900	62,900	61,500	57,800
Whitman	1/	1/	1/	300	1/
Yakima	53,700	62,200	63,500	67,200	66,300
Other Counties	6,300	10,300	4,500	2,800	4,600
<b>DISTRICT</b>					
West	162,600	152,300	150,000	142,500	136,000
Central	57,600	66,100	67,000	70,500	70,000
Northeast	4,100	2/	3,700	4,500	4,300
East Central	20,300	23,300	25,500	29,000	29,500
Southeast	1,400	2/	800	500	200
<b>Other Districts</b>	-	4,600	-	-	-
<b>STATE TOTAL</b>	<b>246,000</b>	<b>246,000</b>	<b>247,000</b>	<b>247,000</b>	<b>240,000</b>
Number of Operations	1,100	1,000	950	850	-

1/ Included in "Other Counties" category to avoid disclosure of individual operations.

2/ Included in "Other Districts" category to avoid disclosure of individual operations.